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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/751,428	01/06/2004	Honchin En	Q78819	3200
23373 SUGHRUE MI	7590 04/02/200 ON, PLLC	EXAMINER		
2100 PENNSYLVANIA AVENUE, N.W.			TRINH, MINH N	
SUITE 800 WASHINGTON, DC 20037			ART UNIT	PAPER NUMBER
			3729	
			MAIL DATE	DELIVERY MODE
			04/02/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)					
	10/751,428	EN ET AL.					
Office Action Summary	Examiner	Art Unit					
	Minh Trinh	3729					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence ad	dress				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim 11 apply and will expire SIX (6) MONTHS from 12 cause the application to become ABANDONE	J. nely filed the mailing date of this co D (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 30 De	ecember 2008.						
/ <u> </u>	action is non-final.						
·=	,—						
closed in accordance with the practice under <i>E</i>	. , , ,						
Disposition of Claims							
4) Claim(s) 1, 3-8 14-21.27-31.34-36.39 and 47 is	s/are pending in the application.						
4a) Of the above claim(s) <u>3-8,14-21,27-31,34-36,39 and 47</u> is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1</u> is/are rejected.	· · · · · · · · · · · · · · · · · · ·						
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or	election requirement.						
Application Papers							
9) The specification is objected to by the Examiner.							
10) ☐ The drawing(s) filed on is/are: a) ☐ acce		Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)	-(d) or (f)					
a) All b) Some * c) None of:							
1. Certified copies of the priority documents	s have been received.						
2. Certified copies of the priority documents		on No					
3. Copies of the certified copies of the prior			Stage				
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	nte					
3) Information Disclosure Statement(s) (PTO/SB/08)	5) Notice of Informal P 6) Other:	atent Application					
Paper No(s)/Mail Date	o) 🔲 Oulet						

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DETAILED ACTION

1. The amendment filed on 12/30/08 has been considered but is ineffective to overcome the combination references.

- 2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 3. Claim 1 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In this application it is not clear when the plating process is stop therefore claim is incomplete to form a product as well as the process is not complete understood.

4. Claim 1 as best understood is rejected under 35 U.S.C. 103(a) as being unpatentable over Richard M. Ellis.

Richard M. Ellis. Discloses the substantially method as claimed by the present comprising electroplating an electrically conductive substrate 2 wherein the electroplating is performed intermittently using said substrate surface as cathode and a plating metal as anode at a constant voltage between said anode and said cathode (see Figs. 1-6, in light of the discussion at page 6, bottom paragraph). Regarding where repeating application of a voltage between a cathode and an anode and interruption of said application alternately with a voltage time/interruption time ratio of 0.01 to 100, a

voltage time of not longer than 10 seconds and an interruption time of not less than I x I0-12 seconds. It would have been an obvious matter of design choice to incorporate the above electrode plating voltage versus time ratio requirements since applicant has not disclosed that such claimed features are critical, patentably distinguishing features and it appears that the invention would perform equally well with the voltage and time ratio as taught by the prior art reference (see charts as indicated in Figs 1-4 of the reference and 5).

Response to Arguments

5. Applicant's arguments with respect to claims 1-2 have been considered but are moot in view of the new ground(s) of rejection.

Further, claim as amended still raise issues of 112 (see above).

This application also contains non elected claims 3-8, 14-21, 27-31, 34-36, 39, 47 drawn to an invention nonelected (these claims are requested to be cancelled or taken other appropriate action).

Interviews After Final

6. Applicants note that an interview after a final rejection will not be granted unless the intended purpose and content of the interview in presented briefly, in writing (the agenda of the interview must be in writing). Such an interview may be granted if the examiner is convinced that disposal or clarification for appeal may be accomplished with only nominal further consideration. Interviews merely to restate arguments of record or

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to discuss new limitations which would require more than nominal reconsideration or new search will be denied. See MPEP 714.13 and 713.09.

Conclusion

- 7. It is noted that any amendment made to the disclosure and the claims. Applicant requires to point out the support provide numeral references to the claimed limitations as well as support in the disclosure (i.e., page and line numbers and reference number associated with from the drawings) for better clarity (See 37CFR 1.111 and section 2163.06 of the MPEP).
- 8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Minh Trinh whose telephone number is (571) 272-4569. The examiner can normally be reached on Monday -Thursday 8:00 am to 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Bryant can be reached on (571) 272-4526. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Minh Trinh Primary Examiner Art Unit 3729

mt 3/26/09

/Minh Trinh/ Primary Examiner, Art Unit 3729